

Claims

What is claimed is:

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1. A computer-implemented method for providing location-sensitive and time-sensitive calendaring to a wireless device, the method comprising the steps of:

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determining that a time reading is within a predetermined minimum of a meeting start time of an appointment of a calendar of a user, wherein the appointment comprises a meeting start time, a meeting place and a plurality of meeting attendees and wherein the time reading is the present time;

determining the location of the user based on the location of the wireless device;

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determining the location of the meeting place;
using historical data, determining the estimated time of arrival of the user at the meeting place; and

if the estimated time of arrival is after the meeting start time, then sending a late message to the plurality of meeting attendees.

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2. The method of claim 1 wherein the location of the meeting place is determined based on a stored list of meeting location coordinates.

3. The method of claim 1 wherein the historical data comprises a database comprising a plurality of time stamps and location coordinates of the wireless device.

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4. The method of claim 3 wherein the step of determining the estimated time of arrival comprises the steps of:

finding the location of the user in the database;

5 finding the location of the meeting place in the database;

determining the difference between the time stamp corresponding to the location of the user and the time stamp corresponding to the location of the meeting place; and

adding the difference to the time reading to generate the estimated time of arrival.

10 5. The method of claim 4 wherein the step of sending a late message to the plurality of meeting attendees comprises sending the late message to a plurality of wireless devices associated with the plurality of meeting attendees.

15 6. The method of claim 1 wherein the step of determining the location of the user based on the location of the wireless device comprises using a global positioning system (GPS) receiver in the wireless device to determine the location of the wireless device.

20 7. The method of claim 1 wherein the step of determining the location of the user based on the location of the wireless device comprises using a cellular tower triangulation method to determine the location of the wireless device.

25 8. The method of claim 1 wherein the step of determining the location of the user based on the location of the wireless device comprises using an E.911 location information method in the wireless device to determine the location of the wireless device.

9. A computer-implemented method for providing location-sensitive and time-sensitive calendaring to a wireless device, the method comprising the steps of:

determining that a time reading is within a predetermined minimum of a meeting start time of an appointment of a calendar of a user, wherein the appointment comprises a meeting start time, a meeting place and a plurality of meeting attendees and wherein the time reading is the present time;

determining the location of the user based on the location of the wireless device;

determining the location of the meeting place;

using historical data, determining the estimated time of arrival of the user at the meeting place; and

if the estimated time of arrival is after the meeting start time, then sending a message to the wireless device indicating the estimated time of arrival.

10. The method of claim 9 wherein the location of the meeting place is determined based on a stored list of meeting location coordinates.

11. The method of claim 9 wherein the historical data comprises a database comprising a plurality of time stamps and location coordinates of the wireless device.

12. The method of claim 11 wherein the step of determining the estimated time of arrival comprises the steps of:

finding the location of the user in the database;

finding the location of the meeting place in the database;

determining the difference between the time stamp corresponding to the location of the user and the time stamp corresponding to the location of the meeting place; and

adding the difference to the time reading to generate the estimated time of arrival.

13. The method of claim 9 wherein the step of determining the location of the user based on the location of the wireless device comprises using a global positioning system (GPS) receiver in the wireless device to determine the location of the wireless device.

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14. The method of claim 9 wherein the step of determining the location of the user based on the location of the wireless device comprises using a cellular tower triangulation method to determine the location of the wireless device.

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15. The method of claim 9 wherein the step of determining the location of the user based on the location of the wireless device comprises using an E.911 location information method in the wireless device to determine the location of the wireless device.

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17. A computer-implemented method for providing location-sensitive and time-sensitive calendaring to a wireless device, the method comprising the steps of:

determining that a time reading is within a predetermined minimum of a meeting start time of an appointment of a calendar of a user, wherein the appointment
5 comprises a meeting start time, a meeting place and a plurality of meeting attendees and wherein the time reading is the present time;

determining the location of the user based on the location of the wireless device;

determining the location of the meeting place;

10 determining the velocity of the user based on the velocity of the wireless device;

determining the estimated time of arrival of the user at the meeting place based on the velocity of the user and the distance between the location of the user and the location of the meeting place; and

15 if the estimated time of arrival is after the meeting start time, then sending a late message to the plurality of meeting attendees.

18. A computer-implemented method for providing location-sensitive and time-sensitive calendaring to a wireless device, the method comprising the steps of:

determining that a request for a roll call of an appointment of a calendar of a user has been received, wherein the appointment comprises a plurality of meeting attendees;

determining a location of each of the plurality of meeting attendees based on a location of a wireless device associated with each of the plurality of meeting attendees;

determining the location of the meeting place;

using historical data, determining the estimated time of arrival of each of the plurality of users at the meeting place; and

then sending the estimated time of arrival for each of the plurality of meeting attendees to the wireless device of the user.

19. The method of claim 18 further comprising the step of sending the location of each of the plurality of meeting attendees to the wireless device of the user.

20. The method of claim 19 wherein the estimated time of arrival and location are displayed to the user in a SMS message.